

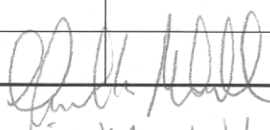
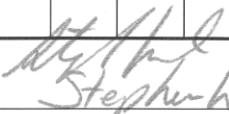
COC# 131

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CHAIN OF CUSTODY REPORT

Work Order #: **M107001**

CLIENT: BRISTOL		INVOICE TO: BRISTOL										TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5 4 3 2 1 <1</div> <div>STD.</div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">OTHER</div> Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>											
REPORT TO: ANNE KRANWETTER		P.O. NUMBER: 21090																					
ADDRESS: AMCHITKA ISLAND, AK		PROJECT NAME: AMCHITKA										<div style="display: flex; justify-content: space-between;"> <div>MATRIX (W, S, O)</div> <div># OF CONT.</div> <div>COMMENTS</div> <div>NCA WO ID</div> </div>											
PHONE: 907-770-0974 FAX: 770-0975		PROJECT NUMBER: 21090																					
SAMPLED BY:		REQUESTED ANALYSES										<div style="display: flex; justify-content: space-between;"> <div>MATRIX (W, S, O)</div> <div># OF CONT.</div> <div>COMMENTS</div> <div>NCA WO ID</div> </div>											
		<div style="display: flex; justify-content: space-around; font-size: small;"> <div>Petroleum</div> <div>Metals</div> <div>Boil</div> <div>TSS</div> <div>Feval</div> <div>Caliform Bact</div> <div>DO & PH</div> </div>																					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Petroleum	Metals	Boil	TSS	Feval	Caliform Bact	DO & PH															
1. 01AMTE055W	7/01/01 1730	X	X	X	X	X	X																
2.																							
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							
RELINQUISHED BY: 		DATE: 7/1/01										RECEIVED BY: 				DATE: 7/01/01							
PRINT NAME: Charlie Marshall		FIRM: BRISTOL										PRINT NAME: Stephen Wilson				FIRM: NCA							
RELINQUISHED BY:		DATE:										RECEIVED BY:				DATE:							
PRINT NAME:		FIRM:										PRINT NAME:				FIRM:							
ADDITIONAL REMARKS: Test As per SAP. Lagoon Treated Effluent.																				TEMP:		PAGE OF	



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7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/01/01 17:43. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107001



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE05SW	M107001-01	Water	07/01/01 17:30	07/01/01 17:43

COC #131

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Polychlorinated Biphenyls per EPA Method 8082

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE05SW (M107001-01) Water						Sampled: 07/01/01 Received: 07/01/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/02/01	07/02/01	0107008	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	ND	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	77.5 %	44-119							
Surr: Decachlorobiphenyl	94.5 %	54-128							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
---------	--------	--------------------	-------	----------	--------	----------	----------	-------	-------

01AMTE05SW (M107001-01) Water

Sampled: 07/01/01 Received: 07/01/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/02/01	07/09/01	0107007	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	0.0111	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/02/01	07/03/01	0107011	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE05SW (M107001-01) Water					Sampled: 07/01/01 Received: 07/01/01				
Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	07/02/01	07/07/01	0107025	Q-12
Dissolved Oxygen	8.42	1.00	"	"	EPA 360.1	07/01/01	07/01/01	0107004	
pH	7.37	0.100	pH Units	"	EPA 150.1	"	07/02/01	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/02/01	07/02/01	0107012	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE05SW (M107001-01) Water

Sampled: 07/01/01 Received: 07/01/01

E. Coli	4.10	2.00MPN/100 ml	1		SM 9221	07/01/01	07/02/01	0107005	
Total Coliforms	179	2.00	"	"	"	"	"	"	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107008 - 3520B Liq-Liq

Blank (0107008-BLK1)

Prepared & Analyzed: 07/02/01

Aroclor 1016	ND	0.200	ug/l
Aroclor 1221	ND	0.400	"
Aroclor 1232	ND	0.200	"
Aroclor 1242	ND	0.200	"
Aroclor 1248	ND	0.200	"
Aroclor 1254	ND	0.200	"
Aroclor 1260	ND	0.200	"

Surr: 2,4,5,6-Tetrachloro-m-xylene

0.138

"

0.200

69.0

44-119

Surr: Decachlorobiphenyl

0.177

"

0.200

88.5

54-128

LCS (0107008-BS1)

Prepared & Analyzed: 07/02/01

Aroclor 1254	2.28	1.00	ug/l
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.135	"	0.200
Surr: Decachlorobiphenyl	0.172	"	0.200

91.2

47-155

67.5

44-119

86.0

54-128

LCS Dup (0107008-BSD1)

Prepared & Analyzed: 07/02/01

Aroclor 1254	2.48	1.00	ug/l
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.149	"	0.200
Surr: Decachlorobiphenyl	0.184	"	0.200

99.2

47-155

8.40

50

74.5

44-119

92.0

54-128

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107007 - EPA 200/3005

Blank (0107007-BLK1)

Prepared: 07/02/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

LCS (0107007-BS1)

Prepared: 07/02/01 Analyzed: 07/09/01

Arsenic	0.0987	0.00500	mg/l	0.100	98.7	80-120
Cadmium	0.0997	0.00200	"	0.100	99.7	80-120
Chromium	0.0990	0.00500	"	0.100	99.0	80-120
Lead	0.0963	0.00500	"	0.100	96.3	80-120
Selenium	0.101	0.00500	"	0.100	101	75-115
Silver	0.104	0.00200	"	0.100	104	80-120

Duplicate (0107007-DUP1)

Source: M107001-01

Prepared: 07/02/01 Analyzed: 07/09/01

Arsenic	ND	0.00500	mg/l	ND	11.0	20
Cadmium	ND	0.00200	"	ND	15.4	20
Chromium	ND	0.00500	"	ND	15.6	20
Lead	0.0111	0.00500	"	0.0111	0	20
Selenium	ND	0.00500	"	ND	187	20
Silver	ND	0.00200	"	ND	9.52	20

Q-06

Matrix Spike (0107007-MS1)

Source: M107001-01

Prepared: 07/02/01 Analyzed: 07/09/01

Arsenic	0.110	0.00500	mg/l	0.100	ND	106	75-125
Cadmium	0.103	0.00200	"	0.100	ND	103	75-125
Chromium	0.102	0.00500	"	0.100	ND	101	75-125
Lead	0.106	0.00500	"	0.100	0.0111	94.9	75-125
Selenium	0.105	0.00500	"	0.100	ND	103	75-125
Silver	0.0290	0.00200	"	0.100	ND	28.9	75-125

Q-02

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107011 - EPA 1631

Blank (0107011-BLK1)

Prepared: 07/02/01 Analyzed: 07/03/01

Mercury	ND	0.0000100	mg/l						
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LCS (0107011-BS1)

Prepared: 07/02/01 Analyzed: 07/03/01

Mercury	0.000140	0.0000100	mg/l	0.000125		112 75-115			
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Duplicate (0107011-DUP1)

Source: M107001-01

Prepared: 07/02/01 Analyzed: 07/03/01

Mercury	ND	0.0000100	mg/l		ND			20	
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Matrix Spike (0107011-MS1)

Source: M107001-01

Prepared: 07/02/01 Analyzed: 07/03/01

Mercury	0.000229	0.0000100	mg/l	0.000250	ND	91.6 75-125			
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 0107004 - Wet Chem

Duplicate (0107004-DUP1)

Source: M107001-01

Prepared: 07/01/01 Analyzed: 07/02/01

pH	7.38	0.100	pH Units	7.37	0.136	200
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Batch 0107012 - Wet Chem

Blank (0107012-BLK1)

Prepared & Analyzed: 07/02/01

Total Suspended Solids	ND	10.0	mg/l
------------------------	----	------	------

LCS (0107012-BS1)

Prepared & Analyzed: 07/02/01

Total Suspended Solids	60.5	10.0	mg/l	60.6	99.8	80-120
------------------------	------	------	------	------	------	--------

Duplicate (0107012-DUP1)

Source: M107001-01

Prepared & Analyzed: 07/02/01

Total Suspended Solids	ND	10.0	mg/l	ND	20
------------------------	----	------	------	----	----

Batch 0107025 - Wet Chem

Blank (0107025-BLK1)

Prepared: 07/02/01 Analyzed: 07/07/01

Biochemical Oxygen Demand	ND	4.00	mg/l
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LCS (0107025-BS1)

Prepared: 07/02/01 Analyzed: 07/07/01

Biochemical Oxygen Demand	231	4.00	mg/l	198	117	75-125
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Duplicate (0107025-DUP1)

Source: M107001-01

Prepared: 07/02/01 Analyzed: 07/07/01

Biochemical Oxygen Demand	ND	4.00	mg/l	ND	40	Q-12
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 0107005 - Micro Extractions

Blank (0107005-BLK1)

Prepared: 07/01/01 Analyzed: 07/02/01

E. Coli	ND	2.00	MPN/100 ml
Total Coliforms	ND	2.00	"

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
07/10/01 09:17

Notes and Definitions

Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

Q-12 None of the sample dilutions selected met the criteria of at least 2 mg/l dissolved oxygen depletion.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107001 FINAL 07 10 01 0917.mdb Default Report (not modified)
0107007-DUP1	Se Total ICPMS 6020	Selenium	Q-06
0107007-DUP1	Se Total ICPMS 6020	Selenium	Exceeds RPD limit
0107007-MS1	Ag Total ICPMS 6020	Silver	Q-02
0107007-MS1	Ag Total ICPMS 6020	Silver	Exceeds lower control limit
0107025-DUP1	BOD-405.1	Biochemical Oxygen Demand	Q-12
M107001-01	BOD-405.1	Biochemical Oxygen Demand	Q-12